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(21)Application number : **08-239788** (71)Applicant : **CATALYSTS & CHEM IND CO LTD**

(22)Date of filing : **22.08.1996** (72)Inventor : **KURODA RYUZO**
ARIMA YUSAKU
TAKAKURA KAZUAKI
TAKEUCHI KAZUO

(54) FAUJASITE TYPE ZEOLITE AND ITS PRODUCTION**(57)Abstract:**

PROBLEM TO BE SOLVED: To obtain a zeolite high in degree of crystallization, small in particle diameter, large in external specific surface area, useful as a catalyst and an adsorbent, by selecting the subject zeolite which is a laminar body having an average particle diameter and an aspect ratio of specific values.

SOLUTION: This zeolite is obtained by selecting the subject zeolite which is a laminar body having $\leq 0.5 \mu\text{m}$ average particle diameter and ≥ 2 aspect ratio and comprises preferably $\geq 50\%$ of a hexagonal laminar body-like material. The zeolite is obtained by mixing an aqueous $\text{SiO}_2\text{-Al}_2\text{O}_3$ compound oxide sol comprising fine particles of a dispersoid having an oxide mol composition ratio of $\text{M}_2\text{O}/\text{Al}_2\text{O}_3$ of 0.8-3.0 and $\text{SiO}_2/\text{Al}_2\text{O}_3$ of 5-16 (M is an alkali metal) with a transparent aqueous solution having an oxide mol composition ratio of $\text{M}_2\text{O}/\text{Al}_2\text{O}_3$ of 17 ± 3 , $\text{SiO}_2/\text{Al}_2\text{O}_3$ of 17 ± 3 and $\text{H}_2\text{O}/\text{Al}_2\text{O}_3$ of 200-3,000, nor containing a gelatinous substance so as to have $\text{M}_2\text{O}/\text{total Al}_2\text{O}_3$ of 2.3 to 3.3, adding a deficient alkali source in the case in which M_2O is insufficient to give a mixture, heating and aging the mixture at a temperature to cause crystallization for a time sufficient for crystallization.